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Apparatus is used for determining moisture and/or fat content of an organic product, especially meat cut or trimming

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
AU 9924991	A	19991104	AU 9924991	A	19990428	200006 B
NZ 335486	A	20000825	NZ 335486	A	19990428	200049

Priority Applications (No Type Date): AU 983226 A 19980428

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
AU 9924991	A	24	G01N-023/02	
NZ 335486	A		G01N-022/00	

Abstract (Basic): AU 9924991 A

NOVELTY - The apparatus comprises a product transfer system (10), analysis enclosure (21) containing RF resonant cavity and analysis station (20), RF antenna coupled to signal generator, and a locating apparatus.

DETAILED DESCRIPTION - Apparatus for determining a part of the composition of an organic product, comprises:

(a) a transfer system for receiving a standard size and configuration of the organic product at a loading station (11) in a standard size and configuration of product, for transfer to an analysis station;

(b) an analysis enclosure for enclosing the analysis station and defining a radio frequency resonant cavity;

(c) at least one antenna in the enclosure, radiating RF radiation;

(d) a signal generator coupled to the antenna for generating an RF signal of variable frequency, and to sweep the frequency through a predetermined frequency range;

(e) a signal receiver coupled to the antenna, for determining the resonant frequency of the resonant cavity with the product in it, and/or the Q of the resonant cavity with the product in it; and

(f) locating apparatus associated with the transfer system for repeatedly locating successively introduced products at the analysis station.

USE - The apparatus is used for determining the moisture and/or fat content of an organic product (claimed), e.g. food, particularly meat, e.g. cuts or trimmings recovered from a slaughtered animal carcass in an abattoir. It is also useful with other food products e.g. fish, vegetables, fruits, grains, tea and organic nonfood products e.g. cotton, tobacco and wool.

ADVANTAGE - The apparatus has improved accuracy and can be used for continuous or on-line analysis.

DESCRIPTION OF DRAWING(S) - transfer system (10)
loading station (11)
conveyor (12)